


```

#note      sequence extracted from NCBI backbone
REFERENCE  #A36007
#authors   Heller, R.A.; Song, K.; Onasch, M.A.; Fischer, W.H.; Chang,
#journal   D.; Ringold, G.M.
#title     Proc. Natl. Acad. Sci. U.S.A. (1990) 87:6151-6155
#cross-references  Complementary DNA cloning of a receptor for tumor necrosis
#accession  factor and demonstration of a shed form of the receptor.
#status     A36007
#molecule-type  preliminary
#residues   116-140,'P',142-195,'R',197-362,'T',364-461 #label HBL
#cross-references  GB:K35857
REFERENCE  #A23666
#authors   Loetscher, H.; Schlaeger, E.J.; Lahm, H.W.; Pan, Y.C.E.;
#journal   Lesslauer, W.; Brockhaus, M.
#title     J. Biol. Chem. (1990) 265:20131-20138
#cross-references  Purification and partial amino acid sequence analysis of two
#accession  distinct tumor necrosis factor receptors from HL60 cells.
#status     A23666
#molecule-type  preliminary
#residues   23-40;65-69;136-141;300-306 #label LOE
#cross-references  A35010
#authors   Engelmann, H.; Novick, D.; Wallach, D.
#journal   U. Biol. Chem. (1990) 265:1531-1536
#title     Two tumor necrosis factor-binding proteins purified from
#cross-references  human urine. Evidence for immunological cross-reactivity
#accession  with cell surface tumor necrosis factor receptors.
#status     B35010
#molecule-type  preliminary
#residues   27-31 #label ENG
REFERENCE  #I38094
#authors   Kuhnert, P.; Kemper, O.; Wallach, D.
#journal   Gene (1994) 150:381-386
#title     Cloning, sequencing and partial functional characterization
#cross-references  of the 5' region of the human p75 tumor necrosis factor
#accession  receptor-encoding gene (TNF-R).
#status     I38094
#molecule-type  preliminary; translated from GB/EMBL/DBJ
#residues   1-37 #label RES
#cross-references  #molecules 1-37 #label RES
#cross-references  EMBL:X80021; NID:g666044; CDS_PID:g825701
#accession  GDB:TNFR2
#status     #cross-references  GDB:125914
#map_position  1p36.2-1p36.2
#introns      26/3
#note         the list of introns is incomplete
CLASSIFICATION #superfamily tumor necrosis factor receptor type 2; NGF
#receptor repeat homology
#duplication; receptor; transmembrane protein
KEYWORDS      #domain signal sequence #status predicted #label SIG\
FEATURE       #product tumor necrosis factor receptor type 2 #status
1-22          experimental #label MAT\
23-416        #domain NCF receptor repeat homology #label NG1\
40-76          #domain NCF receptor repeat homology #label NG2\
78-119         #domain NCF receptor repeat homology #label NG3\
120-162        #domain NCF receptor repeat homology #label NG4\
164-201        #domain NCF receptor repeat homology #label NG4\
262-279        #domain transmembrane #status predicted #label TMN\
280-461        #domain intracellular #status predicted #label INTR\
171-193        #binding site carbohydrate (Asn) (covalent) #status
predicted
SUMMARY       #length 461 #molecular-weight 48291 #checksum 5724
Query Match  13.1%; Score 398; DB 6; Length 461;
Best Local Similarity 43.8%; Pred. No. 3; 16E-47;
Matches 63; Conservative 19; Mismatches 55; Indels 7; Gaps 6;

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Db 45 yyydgra-gmcskcsppgahvfkctsdvcdscsdtyqlwvnpccscgscsd 103
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 31 YDEIHSQHLCDKCPGGTYLKHQCHYAKMKTYCACPDPHYTDSWTSDECLYCSVCKEL 90
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 104 gretacnregricrtcpwycaiscqgcrcplrkrcpgfgyavapgetatsvdkp 163
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 91 QYVKQDCNRTNHRVCECKEGRY--LEI-EFC-L-KH-RSCPPGFVQAGIPERNYVCKR 144
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 164 capgtfsnttsdrcphqlcnv 187
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 145 CPDGFSSNETSKAPCRKHTNCSV 168
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |

RESULT 2
ENTRY 148854 #type fragment
TITLE gene murine tumour necrosis factor receptor 2 protein - mouse
#organism (fragment)
#formal name Mus musculus #common_name house mouse
DATE 02-Jul-1996 #sequence-revision 02-Jul-1996 #text-change
ACCESSIONS 148854
REFERENCE 148854
#authors Powell, E.E.; Wicker, L.S.; Peterson, L.B.; Todd, J.A.
#journal Mamm. Genome (1994) 5:726-727
#title Allelic variation of the type 2 tumor necrosis factor
#cross-references  receptor gene.
#accession  MIM:95178848
#status     preliminary; translated from GB/EMBL/DBJ
#residues   1-459 #label RES
#cross-references  #molecules 1-459 #label RES
#cross-references  EMBL:X76401; NID:g433830; CDS_PID:g433831
GENETICS
#note       gene name murine tumour necrosis factor receptor 2
SUMMARY     #length 459 #checksum 3156

Query Match  12.4%; Score 377; DB 14; Length 459;
Best Local Similarity 41.5%; Pred. No. 1; 46E-43;
Matches 66; Conservative 21; Mismatches 61; Indels 11; Gaps 7;

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Db 37 gmcakcpqgykhfcmktsdvcdscasmytgvmqgftlscsscsatdqvetrac 96
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 38 QLLCCKCPGGTYLKHQCHYAKMKTYCACPDPHYTDSWTSDECLYCSVCKELQYVKEC 97
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 97 tkqgnrvacaeagrycalkthsgscrgcmrlskcpgfgyavastapngvlicakapgtf 156
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 98 NRTNHRVCECKEGRY--LEIEF--CLKH-R-S-CPDGFVQAGIPERNYVCKRCPDGF 150
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 157 sdtstsdvcphticstl--laip--gnastdvcapcs 191
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 151 SNETSSKAPCRKHTNCSVGLLTGKGNATHDNICGNS 189
| : : : | : : : | : : : | : : : | : : : | : : : | : : : |

RESULT 3
ENTRY B38634 #type complete
TITLE tumor necrosis factor receptor type 2 precursor - mouse
#organism #formal_name Mus musculus #common_name house mouse
DATE 30-Jun-1992 #sequence-revision 30-Jun-1992 #text-change
ACCESSIONS B38634; A40254; S54816
REFERENCE B38634
#authors Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice,
#journal Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
#title Cloning and expression of cDNAs for two distinct murine tumor
#cross-references  necrosis factor receptors demonstrate one receptor is
#accession  species specific.
#accession  MIM:91187885
#molecule-type  mRNA
#residues 1-474 #label LEW
#cross-references  GB:M60469

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REFERENCE      A40254
#authors      Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan,
#journal      C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.
#title        Mol. Cell. Biol. (1991) 11:3020-3026
#cross-references GB:M60469
#accession    A40254
#molecule_type mRNA
#residues     1-474 #label GOO
#cross-references GB:M60469
REFERENCE      S54816
#authors      Kisonerights, M.; Fellowes, R.; Feldmann, M.; Chernafovsky,
#journal      Y.
#title        Submitted to the EMBL Data Library, May 1995
#description   Characterization of the promoter region of the murine p75-TNFR
#accession    S54816
#molecule_type DNA
#residues     1-22 #label KIS
#cross-references EMBL:X87128
CLASSIFICATION #superfamily tumor necrosis factor receptor type 2; NGF
receptor repeat homology
FEATURE
1-22          #domain signal sequence #status predicted #label SIG
23-474        #product tumor necrosis factor receptor type 2 #status
                predicted #label MAT\
40-77         #domain NGF receptor repeat homology #label NG1\
79-120        #domain NGF receptor repeat homology #label NG2\
166-203       #domain NGF receptor repeat homology #label NG4
SUMMARY
#length 474 #molecular-weight 50319 #checksum 7767
Query Match      12.4% Score 375; DB 6; Length 474;
Best Local Similarity 41.5% Pred. No. 3.24e-43;
Matches 66; Conservative 21; Mismatches 61; Indels 11; Gaps 7;
Db 52 qmccakcpqgyvhfnciktsdvcdeasmytyvngfriclsccssctdqvairac 111
   | : | | | | | : | : | | | | | : | : | : | : | : | : | : |
QY 38 QLLDCKCPGYVHKQHTAKMTVCAPCPHYRTYDSMHSDELYCSPYCKRLQYKQEC 97
   | : | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 112 tkqgrvccaeagaycalckhsgscrgcmiskcpgpfvassrapngnvlkacaptf 171
   | : | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 98 NRIHNRYCECKEGRY--LEIEF--CLKH-R-S-CPGPGVQAGTEPRNTVCRCRDPGEF 150
   | : | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 172 sdtssdcvcrphicsl--lajp--gnastdvccpes 206
   | : | | | | | | | | | | | | | | | | | | | | | | | | | |
151 SNETSSKAPCRKHTNCVFGLLLTQKNATHDNICGNS 189
RESULT 4
ENTRY
TITLE      A60771 #type complete
#ALTERNATE_NAMES B-cell activation protein CD40 precursor - human
ORGANISM   B-cell surface antigen Bp50
#formal_name Homo sapiens #common_name man
DATE       03-Jun-1993 #sequence_revision 03-Feb-1994 #text_change
                06-Sep-1996
ACCESSIONS S04460; A60771
REFERENCE
#authors    Stamenkovic, I.; Clark, E.A.; Seed, B.
#journal    EMBO J. (1989) 8:1403-1410
#title      A B-1 myelocyte activation molecule related to the nerve
                growth factor receptor and induced by cytokines in
                carcinomas.
#cross-references MIMD:89356608
#accession  S04460
#molecule_type mRNA
#residues   1-277 #label STA
#cross-references EMBL:X60592
REFERENCE    A60771
#authors     Braesch-Andersen, S.; Paulie, S.; Koho, H.; Nika, H.;
                Aspenstrom, P.; Perlmann, P.
#journal     J. Immunol. (1989) 142:562-567

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#title      Biochemical characteristics and partial amino acid sequence  
            Of the receptor-like human B cell and carcinoma antigen  
            CDw40.  
#accession  A60771  
##molecule_type protein  
##residues   21-50 ##label BRA  
##experimental_source Burkitt lymphoma cell line Raji  
GENETICS  
    #gene     GDB:CD40  
    ##cross-references GDB:215268  
#map_position 20q12-20q13.2  
KEYWORDS  
FEATURE      B-cell; glycoprotein; phosphoprotein; transmembrane protein  
            1-20  
            21-277  
            21-193        #domain signal sequence #status predicted #label sig\  
            194-215       #product B-cell activation protein CD40 #status  
            216-277       experimental #label MAR\  
            153-180       #domain extracellular #status predicted #label EXT\  
                        #domain transmembrane #status predicted #label TM\  
                        #domain intracellular #status predicted #label CYT\  
                        #binding-site carbohydrate (Asn) (covalent) #status  
                        Predicted  
SUMMARY      #length 277 #molecular_weight 30619 #checksum 6261
```

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Query Match          10.0%; Score 303; DB 13; Length 277;  
Best Local Similarity 36.8%; Pred. No. 6,84e-31;  
Matches 56; Conservative 21; Mismatches 67; Indels 8; Gaps 7;
```

Db 38 csleqpqgkylvsdtefetcclcgsgesfidwnrcethqhghkycdpn-1glr-vyqkg 95
 | :|::||| ||| |::||::||:|::||:|::||:|::||:|::||:|
OY 41 CDKCPGGYLQHOCTAKWKIVCAPCPHHYTDSWHTSDEC-L-YCSPVCKEQLQVKEQC 97

Db 96 tseeltlcetceagwhcscasescvlhrspspfgyvkqlatvysdticecpvygfins 155
 | ::|::|: -|:-|::|::|::|::|::|::|::|::|::|::|:
OY 98 NRTNHRVCEKEGGRY-L-EI-EFLTKRISCPGGGVQATPENTNYCKRCPPGFENET 154

Db 156 safeckhpwtscetkldivvgagtnkdavvc 187
 |::|::|::|::|::|::|::|::|::|::|::|::|::|::|:
OY 155 SSKAPCRKHITNCVFGLLTOKGNATHDNICIS 186

```
RESULT      5  
ENTRY       A46515 #type complete  
TITLE       B cell-associated surface molecule CD40 - mouse  
ORGANISM    #formal_name Mus musculus #common_name house mouse  
DATE        18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change  
            03-Mar-1995  
ACCESSIONS  A46515  
REFERENCE   Grimaldi, J.C.; Torres, R.; Kozak, C.A.; Chang, R.; Clark,  
            E.A.; Howard, M.; Cockayne, D.A.  
J. Immunol. (1992) 149:3921-3926  
#journal    Genomic structure and chromosomal mapping of the murine CD40  
#title      gene.
```

```
#cross-references MIMD:93094586  
#accession  A46515  
#status     preliminary: not compared with conceptual translation  
##molecule_type nucleic acid  
##residues   1-289 ##label GRI  
##cross-references NCBI:P120357  
##experimental_source BALB/C, liver  
#note       sequence extracted from NCBI backbone  
#length 289 #molecular_weight 32111 #checksum 579
```

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SUMMARY      Query Match          9.7%; Score 294; DB 14; Length 289;  
Best Local Similarity 38.8%; Pred. No. 2.21e-29;  
Matches 59; Conservative 20; Mismatches 65; Indels 8; Gaps 6;
```

Db 38 cdlsqgsrltshtalektchpcdsgefsaqwrrelrchqnhecpn-qglr-vykkg 95
 |::|::|::|::|::|::|::|::|::|::|::|::|::|::|:
OY 41 CDKRPRGYLLNOHNTAKMKTYCASPBRHYTTSDNSHTDEC-VL-CSPVKELQLQVKEQC 97

Db 96 taesdlvtckeeghnstskdeacaqrhlprclpgfyvwemateitdvihpcrvpykfns 155
 |::|::|::|::|::|::|::|::|::|::|::|::|::|::|:

```

OY      98 NRTNRRVCECKEGRY-L--EIEFCLKHRSCPPGFGVYAGTPEBNTVCKRCPDGFSSNET 154
Db      156 slfckypwtscdknlevlqkqtsqtnvlg 187
OY      155 SSKAPCRKHTNCVFGLLTQKGNATHDNICS 186

RESULT      6
ENTRY      A46476 #type complete
TITLE      CD40 - mouse
ORGANISM   #formal_name Mus musculus #common_name house mouse
DATE       18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
18-Nov-1994

ACCESSIONS
REFERENCE  A46476
#authors   Torres, R.M.; Clark, E.A.
#journal   J. Immunol. (1992) 148:620-626
#title     Differential increase of an alternatively polyadenylated mRNA
            species of murine CD40 upon B lymphocyte activation.
#cross-references MUID:92105763
#accession  A46476
#status    Preliminary
#molecule-type mRNA
#residues  1-305 #label TOR
#cross-references NCBIN:75206: NCBIP:75207
#note      sequence extracted from NCB1 backbone

SUMMARY    #length 305 #molecular-weight 33617 #checksum 5203

Query Match      9.7%; Score 294; DB 14; Length 305;
Best Local Similarity 38.8%; Pred. No.2,21e-29;
Matches 59; Conservative 20; Mismatches 65; Indels 8; Gaps 6;

Db      38 cdllgpgsrlshatalektqchpcdsgefsagwretrchqhncepn-qglt-vkqeg 95
OY      41 CDKCPGTYLKQHCRTAKMKTVCAPCPDHYTDSWHTSDEC-LY--CSFVCKELQYKQEC 97

Db      96 taedtyctckeghgcscdeacaghpccipgfygmemaetdtdchpopyffngs 155
OY      98 NRTNRRVCECKEGRY-L--EIEFCLKHRSCPPGFGVYAGTPEBNTVCKRCPDGFSSNET 154

Db      156 slfckypwtscdknlevlqkqtsqtnvlg 187
OY      155 SSKAPCRKHTNCVFGLLTQKGNATHDNICS 186

RESULT      7
ENTRY      GOVZML #type complete
TITLE      T2 protein - myxoma virus (strain Lausanne)
ORGANISM   #formal_name myxoma virus
DATE       31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change
26-Apr-1996

ACCESSIONS
REFERENCE  A40566
#authors   Upton, C.; Macen, J.L.; Schreiber, M.; McFadden, G.
#journal   Virology (1991) 184:370-382
#title     Myxoma virus expresses a secreted protein with homology to
            the tumor necrosis factor receptor gene family that
            contributes to viral virulence.
#cross-references MUID:91335768
#accession  A40566
#molecule-type DNA
#residues  1-326 #label UPT
#cross-references GB:M37976

CLASSIFICATION #superfamily myxoma virus T2 protein; NGF receptor repeat
homology
KEYWORDS      glycoprotein

FEATURE
64-105 #domain NGF receptor repeat homology #label NG2\
106-147 #domain NGF receptor repeat homology #label NG3\
66,181,205,238 #binding_site carbohydrate (Asn) (covalent) #status
predicted

SUMMARY    #length 326 #molecular-weight 35208 #checksum 9255

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Query Match      8.9%; Score 269; DB 2; Length 326;
Best Local Similarity 33.8%; Pred. No.3,14e-25;
Matches 47; Conservative 25; Mismatches 58; Indels 9; Gaps 8;

Db      40 ctscppgsyasilcgpsdvtcspckneftaetnnapacvsrgtrcghlaesgdcit 99
OY      41 CDKCPGTYLKQHCRTAKMKTVCAPCPDHYTDSWHTSDECILCSPVCKELQYKQECNRT 100

Db      100 rdtvcdasagncyllkqgegricacpqtckpagyvs-ghrtgdvlckcpptydsav 158
OY      101 HNRVCECKEGRY--L-EIEFCLKHRSCPPGFGVYAGTPEBNTVCKRCPDGFSSNET 154

Db      159 sstetctsfnylsvefnl 177
OY      155 SSKAPCRKHTNC-SV-FGL 171

RESULT      8
ENTRY      B43692 #type complete
TITLE      T2 protein - rabbit fibroma virus
ORGANISM   #formal_name rabbit fibroma virus, Shope fibroma virus
DATE       30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
26-Apr-1996

ACCESSIONS
REFERENCE  B43692
#authors   Upton, C.; Delange, A.M.; McFadden, G.
#journal   Virology (1987) 160:20-30
#title     Tumorigenic poxviruses: genomic organization and DNA sequence
            of the telomeric region of the Shope fibroma virus genome.
#accession  B43692
#status    Preliminary
#molecule-type DNA
#residues  1-325 #label UPT
#cross-references GB:M17433

CLASSIFICATION #superfamily NGF receptor repeat homology
FEATURE
64-105 #domain NGF receptor repeat homology #label NG2\
106-147 #domain NGF receptor repeat homology #label NG3

SUMMARY    #length 325 #molecular-weight 35132 #checksum 4629

Query Match      8.6%; Score 260; DB 6; Length 325;
Best Local Similarity 30.5%; Pred. No.9,43e-24;
Matches 51; Conservative 31; Mismatches 77; Indels 8; Gaps 5;

Db      40 caschpgfyasrlcgpsnltvcspcdqgtfaetnnapacvsrctghlaesgpcdit 99
OY      41 CDKCPGTYLKQHCRTAKMKTVCAPCPDHYTDSWHTSDECILCSPVCKELQYKQECNRT 100

Db      100 hdtvcnctstnycllkqgncricapqtckpagyvs-ghrtgdvlckcpptydsal 158
OY      101 HNRVCECKEGRY--L-EIEFCLKHRSCPPGFGVYAGTPEBNTVCKRCPDGFSSNET 154

Db      159 sptercstfnysvgfnlypnvetsctt-aghnevltkctfvl 204
OY      155 SSKAPCRKHTNCVFGLLTQKGNATHDNICSSSTQKCGIDVTL 201

RESULT      9
ENTRY      I54182 #type complete
TITLE      tumor necrosis factor receptor 2-related protein - human
ORGANISM   #formal_name Homo sapiens #common_name man
DATE       24-May-1996 #sequence_revision 24-May-1996 #text_change
24-May-1996

ACCESSIONS
REFERENCE  I54182
#authors   Baens, M.; Chaffanet, M.; Cassiman, J.J.; Van den Berghe, H.;
            Maynen, P.
#journal   Genomics (1993) 16:214-218
#title     Construction and evaluation of a hncDNA library of human T2P
            transcribed sequences derived from a somatic cell hybrid.
#cross-references MUID:93252381
#accession  I54182
#status    Preliminary; translated from GB/EMBL/DBJ

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Db 168 -cnaqfllresecpckhcknec 191
OY 144 RCPDGFNSNETSSKA-P-CRKATNC 166

RESULT 13
ENTRY
TITLE GOMST1 #type complete
ALTERNATE_NAMES tumor necrosis factor receptor type 1 precursor - mouse
ORGANISM tumor necrosis factor receptor, 55k
DATE #format_name Mus musculus #common_name house mouse
30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 18-Oct-1996
A38634; B40254; S16677; S19021; I54532
A38634
A38634
Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
Cloning and expression of cDNAs for two distinct murine tumor
necrosis factor receptors demonstrate one receptor is
species specific.

ACCESSIONS
#authors
#journal
#title
#cross-references GB:9187885
#accession A38634
#molecule_type mRNA
#residues 1-454 ##label LEW
#cross-references GB:M60468
REFERENCE
#authors Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan, C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.
Mol. Cell. Biol. (1991) 11:3020-3026
Murine cloning and expression of the type 1 and type 2
murine receptors for tumor necrosis factor.
#accession B40254
#molecule_type mRNA
#residues 1-454 ##label GO2
#cross-references GB:M60468
REFERENCE
#authors Barrett, K.; Taylor-Fishwick, D.A.; Cope, A.P.; Kissonerghis, A.M.; Gray, P.W.; Feldmann, M.; Foxwell, B.M.J.
Eur. J. Immunol. (1991) 21:1649-1656
Cloning, expression and cross-linking analysis of the murine
p55 tumor necrosis factor receptor.
#cross-references MVID:91285014
#accession S16677
#molecule_type mRNA
#residues 1-454 ##label BAR
#cross-references EMBL:X59238
RENCE
#authors Roche, J.G.; Brockhaus, M.; Gentz, R.; Lesslauer, W.
Immunogenetics (1991) 34:338-340
Molecular cloning and expression of the mouse Tnf receptor
type b.
#cross-references MVID:92039815
#accession S19021
#molecule_type mRNA
#residues 1-454 ##label ROT
#cross-references EMBL:X57796
REFERENCE
#authors Beedo, B.F.
Immunogenetics (1994) 39:450-451
Nucleotide sequence of the TNF type I receptor from a mouse
endothelioma cell line.
#cross-references MVID:94245292
#accession I54532
#status translated from GB/EMBL/DBJ
#molecule_type mRNA
#residues 1-454 ##label RES
#cross-references GB:I26349; NID:9430732; CDS_PID:9430733
COMMENT This protein is one of two distantly related receptors for both
TNF-alpha (cachectin) and TNF-beta (lymphotoxin).
#superfamily tumor necrosis factor receptor type 1; NCF
receptor repeat homology

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KEYWORDS      duplication; glycoprotein; receptor; transmembrane protein
FEATURE
1-29          #domain signal sequence #status predicted #label SIG\
30-454        #product tumor necrosis factor receptor type 1 #status
               predicted #label MAT\
               #domain extracellular #status predicted #label EXT\
44-82         #domain NGF receptor repeat homology #label NG1\
44-82         #domain NGF receptor repeat homology #label NG2\
84-126        #domain NGF receptor repeat homology #label NG3\
127-167       #domain NGF receptor repeat homology #label NG4\
168-204       #domain transmembrane #status predicted #label MEM\
213-235       #domain intracellular #status predicted #label INT\
236-454       #length 454 #molecular-weight 50125 #checksum 4839
SUMMARY

Query Match 7.3%; Score 221; DB 2; Length 454;
Best Local Similarity 33.1%; Pred. No. 1,77e-17;
Matches 48; Conservative 21; Mismatches 65; Indels 11; Gaps 9;

Db 49 yvhskmsicctkshktylvsdcpspdrivrcceekyftasqyilqclskctcrke 108
   :::::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 31 YDEETSHQLCDKCPPTKYKHCHTAK-WMTYVACPDPHYDTSMHTSDCELYCSPVCKE 89
   ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

Db 109 msgrvslpcgqadkdvkcgkengfqrlysethgcgdcspcfnf-ctvlipcketqtnv 167
   ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 90 LQYK-OECNRTNHRVCEKEG---RYL-EIEF-CLKHNSCPGFSGVQAGTPERNVTWK 143
   ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

Db 168 -chagffllresccvpcshckkneec 191
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 144 RCPDGFPSNERSKA-P-CRKHNLC 166
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 14
ENTRY GOR11 #type complete
TITLE tumor necrosis factor receptor type 1 precursor - rat
CONTAINS tumor necrosis factor binding protein 1 (TNF blocking factor
ORGANISM #formal_name Rattus norvegicus #common_name Norway rat
DATE 30-Jun-1992 #sequence_revision 07-Oct-1994 #text_change
05-Apr-1995
ACCESSIONS B36555
REFERENCE A36555
AUTHORS Himmeler, A.; Maurer-Fogy, I.; Kroenke, M.; Scheurich, P.;
Pfeiffermaier, K.; Lantcz, M.; Olsson, I.; Hauptmann, R.;
Stratowa, C.; Adolt, G. R.
#journal DNA Cell Biol. (1990) 9:705-715
#title Molecular cloning and expression of human and rat tumor
necrosis factor receptor chain (p60) and its soluble
derivative, tumor necrosis factor-binding protein.
#cross-references MIMD:91090841
#accession B36555
#molecule-type mRNA
#residues 1-461 #label HIM
#cross-references CB:M6132
COMMENT This protein is one of two known receptors for both TNF-alpha
(cachectin) and TNF-beta (lymphotoxin).
CLASSIFICATION #superfamily tumor necrosis factor receptor type 1; NGF
receptor repeat homology
duplication; glycoprotein; receptor; transmembrane protein
KEYWORDS
FEATURE
1-29          #domain signal sequence #status predicted #label SIG\
30-461        #product tumor necrosis factor receptor type 1 #status
               predicted #label MAT\
               #domain extracellular #status predicted #label EXT\
44-82         #product tumor necrosis factor binding protein #status
               predicted #label TBP\
44-82         #domain NGF receptor repeat homology #label NG1\
84-126        #domain NGF receptor repeat homology #label NG2\
127-167       #domain NGF receptor repeat homology #label NG3\
168-204       #domain NGF receptor repeat homology #label NG4\
212-234       #domain transmembrane #status predicted #label MEM\
235-461       #domain intracellular #status predicted #label INT\
54,151,201    #binding_site carbohydrate (Asn) (covalent) #status
               predicted
#length 461 #molecular-weight 50969 #checksum 1617
SUMMARY

```

```

Query Match      7.3%; Score 220; DB 2; Length 461;
Best Local Similarity 33.8%; Pred. No. 2,346-17;
Matches 49; Conservative 22; Mismatches 63; Indels 11; Gaps 10;

Db 49 yabhpknscctkghkgyldvscpsqgqetvcevcckdyftasqnhvrglscktorke 108
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 31 YDEETSHQLCDKCPPTGYLKHQCTAK-WKTVCAPCPDHYTTDSWHTSDECLYSPVCKE 89
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 109 mfyvelspckadmdtvcgckknqfgytsethfgcvdscpfng-tvlipeckeqntvcn 167
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 90 L-QYVKQDCNTHNRVCCCK--E-GRYL-EIEF-CLKHRSCEPGGVQAGTPERNVTCK 143
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 168 -chagfflsgnecpcshckknqec 191
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 144 RCPDGF-F-S-NEISSKAPCRKHTNC 166
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

--SULT 15
NY
LE JN0006 #type complete
ALTERNATE_NAMES nerve growth factor receptor, low affinity - chicken
ORGANISM NGF receptor
#formal_name Gallus gallus #common_name chicken
DATE 07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change
05-Apr-1995
ACCESSIONS JN0006; A60504
REFERENCE JN0006
#authors Large, T.H.; Weskamp, G.; Helder, J.C.; Radeke, M.J.; Misko,
#journal T.P.; Shooter, E.M.; Reichardt, L.F.
#title Neuron (1989) 2:1123-1134
#cross_references M01D:9016579
#accession JN0006
#molecule_type mRNA
#residues 1-416 ##label IAR
##experimental_source embryonic chick brain
REFERENCE A60504
#authors Heuer, J.G.; Fatemie-Nainie, S.; Wheeler, E.F.; Bothwell, M.
#journal Dev. Biol. (1990) 137:287-304
#title Structure and developmental expression of the chicken NGF
#accession A60504
#molecule_type mRNA
#residues 1-416 ##label HED
#status preliminary; not compared with conceptual translation
##molecule_type mRNA
##residues 21-35,'Y',37-172,'K',174-275,'S',277-395,'R',397-416
##label HED

VENT This receptor is found on sensory and sympathetic neurons, on
neuroblastoma cells, and on a variety of nonneuronal derivatives
of the neural crest.
COMMENT The cysteine-rich region of the extracellular domain may form part
or all of the NGF-binding site.
This protein is thought to form a high-affinity receptor when it
associates with the 140K trk proto-oncogene, which contains an
intracellular tyrosine kinase domain.
CLASSIFICATION #superfamily nerve growth factor receptor; NGF receptor
repeat homology
KEYWORDS duplication; glycoprotein; heterodimer; monomer;
phosphoprotein; receptor; transmembrane protein
FEATURE
1-20 #domain signal sequence #status predicted #label SIG\
21-416 #product nerve growth factor receptor #status predicted
#label MAR\
21-239 #domain extracellular #status predicted #label EXT\
21-182 #region cysteine-rich\
24-57 #domain NGF receptor repeat homology #label NG1\
59-100 #domain NGF receptor repeat homology #label NG2\
101-139 #domain NGF receptor repeat homology #label NG3\
141-181 #domain NGF receptor repeat homology #label NG4\
189-237 #region serine/threonine-rich\
240-261 #domain transmembrane #status predicted #label MEM\
262-416 #domain intracellular #status predicted #label INT\
#binding_site carbohydrate (asn) (covalent) #status

```

```

SUMMARY      predicted
#length 416 #molecular-weight 44654 #checksum 3542

Query Match      7.1%; Score 215; DB 6; Length 416;
Best Local Similarity 30.4%; Pred. No. 1,556-16;
Matches 45; Conservative 27; Mismatches 70; Indels 6; Gaps 6;

Db 36 ckaenlgegyvqpcgvn-qvcepcldsvtysdtsatdepckpctq-cvglhmsapcve 93
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 41 CDKCPPTGYLKHQCTAKMKTVCAPCPDHY-YTDSWHTSDECLYSPVCKELQYVKQCNR 99
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 94 sddavccaygyfdelsgskcecsicevfglmfpordsgdtvcecpqgtsdeanf 153
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 100 INNRVCECKEGRIV-EIE-FCLKHRSCEPGGVQAGTPERNVTCKRCPDGFSSNETSK 137
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 154 dpcjpciceeneywke-ctatsdaec 180
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 158 APCRKHTNCSVFGLLTQKGNATHDNIC 185
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Search completed: Wed Aug 20 09:43:54 1997
Job time : 99 secs.

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